6/14/66 Saw Nix, Muchmore, Zapruder movies on my Bolex after 1:30 p.m. today, with Isbell, Johnson (part of time) Frazer projecting, Fernandez and another who left before end.

On I believe it is the Nix it is clear the motorcade did not speed up until right after the fatal bullet. Also shows a large, white puff, twice the size of the head, above it. Only a few frames show car because people are in the way, that is, theppart of the car with JFK. His motion in response to shot not as clearly visible as in Zap. Frames taken on Houston seem to show him sitting upright, with what I would estimate as about a foot of his back below his neck and above the back of the seat clearly visible. What is not as clear is whether the coat is wrinkled or bunched up. It seems as though it is not, that it is smooth-fitting, but because the pictures are poor it is not possible to be certain.

Saw Zap both normal and slow-motion. Normal seems to be too fast, an impression left also by the 16 mm. version. But several things are beyong contradiction, others seem apparent but may not mean what they seem to. There certainly seem to be frames missing the moment the part of the car with the Pres is behind the road sign. Just before this happened, it seemed that Zap moved his camera. It may be possible that he jerked it upward an additional time, butnI strongly believe this is not the case, that the frames are missing, and that they likely coincide with Frames 208-11. Almost the mom nt the part of the car with the Pres is clear of the sign, ~~his body came from the waste up, but just the head and the shoulders~~, there are definitely frames missing. The entire car moves abruptly away from the side toward the camera toward the other side of the street. It is abrupt, and cannot be just the moving of the camera. It is also consistent with the contour of the road (similar to the still of frame ~~121~~ 212). Shortly thereafter the Pres.'s body makes a short, sharp lurch forward, before the fatal shot. It seems to be not the body from the waste up, but just the head or the head and the shoulders. And there is something unmistakable about the fatal shot: the motion is backward and violent. We also ran this print backward, and the effect is quite pronounced that way also. Several times as we ran the fil through, I got an impression something had happened to him just before the car went behind the sign. The film is ffuzzy here, and it is not possible to be certain, but my impression is it involved both the face and he hand, and one time I got the impression his facial expression had cahnged. Isbel is quite certain about the motions and the missing frames after the sign. I believe he is uncertain of missing frames just as the Pres got behind the sign. One when we were looking at it he called out it depended on what part ofnthe car you were looking at how clearly the missing frames were visible. Frazier checked the film visually and could find no splices. There were several place before the Zap started (all three are on one) that were without emeulsion. He said this is in the printing, that the footage is uninterrupted. I asked Johnson if this were the film LIFE supplied, and he said he'd check. I believe it may not be. The faces were not nearly as clear as they should be, perhaps not as clear as the prints. Johnson confirmed the 35mm used as Exhibit 885 were made by the FBI, not LIFE, but he added no explanation. He will check this out and left me know, if he can, if this 8mm film is the original copy. It also seems to move much too fast. The testimony said it runs 35 seconds. I doubt of a car going that slowly, having just made a slow turn off o f Main into Houston, seeming to go slowly on Houston, and then making a slow, more than 90 degree turn into Elm, where the reconstruction places the speed at 11 mph, could travers that distance in appreciably less than ~~35~~ nine seconds, for the beginning of the footage shows only the motorcycle escort, not the Pres. car. Bearing on the clarity of the print, the spray from the President's head at 313 is not nearly as clear as on 16mm.

On this spool, the Zap is last, with the Nix and Muchmore spliced ahead of it. At the very begiining is a single or couple of reddish-brown frames barely visible at even 5 fps, strongly reminiscent of the ~~the~~ sixth-floor, with a stack of books, looking a little to the south of east in the SE corner. These films also give an idea of how really slow the motorcade must have been moving, for from the corner of Main and Houston, Nix was able to get down and abreast of the Pres car a little before the fatal bullet was fired. It shows nothing earlier on Elm and the car going N on H just before. Altgens testified similarly, and he was even ahead of the car at 255.